

## Results for the 12'x160' circular tank with ramp:

### Circular tank:

Tank Diameter = 160 ft

Tank Wall thickness = 12 in (actual)

Tank Height = 12 ft

$f_y = 60,000$  psi

$f'_c = 4,000$  psi

Horizontal Steel = #4 rebar Steel shown in table must be placed in each face of the wall		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	12	1' 3"
3	12	2' 3"
4	10	3' 1"
5	10	3' 11"
6	10	4' 9"
7	10	5' 7"
8	10	6' 5"
9	10	7' 3"
10	9	8' 0"
11	9	8' 9"
12	9	9' 6"
13	9	10' 3"
14	9	11' 0"
15	9	11' 9"

Vertical Steel = #4 @ 12" O.C. in each face.


Dowels "L" bars from tank to footing shall be #4 @ 12" O.C. at the interior mat of steel. 26" vertical leg, 10" horizontal leg

In the tank wall, at the corner of the notch for the ramp add:

4-#6 bars x 13'-10" long @ 6" O.C. vertically in each mat of steel (8 total)

4-#6 bars x 20' long @ 6" O.C. horizontally in each mat of steel (8 total)

4-#6 bars x 6 feet long @ 6" O.C. at a 45 degree angle in each mat of steel (8 total).

 Natural Resources Conservation Services United States Department of Agriculture	____ County, PA <b>ROUND TANK W/RAMP</b> <b>DETAIL Page 6.25</b>	Designed <u>PA NRCS</u> <u>12/01</u>
		Drawn <u>Hartz</u> <u>2/1/08</u>
		Revisions <u>Pereverzoff</u> <u>1/9/08</u>
		Checked _____
		Approved _____